ARTICLES, PRESENTATIONS, AND STUDENT SUPPORT

Journal Articles (peer reviewed)

- C. Kim and N. Lior, "A numerical analysis of NO_x formation and control in radiatively/conductively-stabilized pulverized coal combustors", *J. Chem. Engng*, Vol. 71, pp. 221-231, 1998.

- R. Kansuntisukmongkol, H. Ozoe, H. Miyachi, and S. W. Churchill,"Development of a computational scheme for transient combustion inside a refractory tube", *Combustion and Flame*, 108, 158-172 (1997)

- R. Kansuntisukmongkol, H. Ozoe and S. W. Churchill, "Influence of various parameters on stable combustion in a refractory tube", *Comb. Sci. and Tech*., 126, 153-173 (1997).

- R. Kansuntisukmongkol, H. Ozoe and S. W. Churchill, "Experiments of a premixed flame inside a refractrory tube", *Chemical Engineering Journal*, 71, 213-220 (1998).

Conference Presentations

- N. Lior, C. Kim and N. Arai, "Simple approximations for the spectral radiative properties of pulverized coals in combustors", Proc. 35th National Heat Transfer Symposium of Japan, May 27-29, 1998, Nagoya, Japan pp. 113-114.

- S.W. Churchill, "Thermally stabilized combustion - a review", The ASME Int. Joint Power Generation Conference and Exposition, Aug. 26-28, 1998, Baltimore, MD

Invited seminar presentations by the PI-s (all in 1998)

University of Arizona;
Åbo Akademi University, Finland;
Luleå University of Technology, Sweden
MEFOS (Foundation for Metallurgical Research), Sweden
University of Lund, Sweden
Chalmers University of Technology, Sweden
Nagoya University, Japan.

Students Supported under this Grant

- Fanfan Xiong, graduate (Ph.D.) student in mechanical engineering and applied mechanics, University of Pennsylvania

- Joe Corcoran, undergraduate in mechanical engineering and applied mechanics,, University of Pennsylvania (conducted term project on this topic).